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PTO/SB/21 (08-03) Approved for use through 08/30/2003. OMB 0651-0031
U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE aperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it displays a valid OMB control number. **Application Number** 10/676,721 TRANSMITTAL Filing Date 9/30/2003 **FORM** First Named Inventor Burak Acar Art Unit Not Yet Assigned (to be used for all correspondence after initial filing) Examiner Name Not Yet Assigned Attorney Docket Number S01-254/US Total Number of Pages in This Submission **ENCLOSURES** (Check all that apply) After Allowance communication to Technology Center (TC) Fee Transmittal Form Drawing(s) Appeal Communication to Board Licensing-related Papers of Appeals and Interferences Fee Attached Appeal Communication to TC Petition (Appeal Notice, Brief, Reply Brief) Amendment/Reply Petition to Convert to a Proprietary Information After Final Provisional Application Power of Attorney, Revocation Status Letter Change of Correspondence Address Affidavits/declaration(s) Other Enclosure(s) (please Terminal Disclaimer Extension of Time Request Identify below): Request for Refund **Express Abandonment Request** CD. Number of CD(s) Information Disclosure Statement Remarks Certified Copy of Priority Document(s) Response to Missing Parts/ Incomplete Application Response to Missing Parts under 37 CFR 1.52 or 1.53 SIGNATURE OF APPLICANT, ATTORNEY, OR AGENT Firm Ron Jacobs Ph. D. Reg No. 50,142 Individual name Signature Date 8-10-04 CERTIFICATE OF TRANSMISSION/MAILING I hereby certify that this correspondence is being facsimile transmitted to the USPTO or deposited with the United States Postal Service with

sufficient postage as first class mail in an envelope addressed to: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450 on the date shown below.

Typed or printed name

SYLVIA LEE

Signature

Date 8110/04

This collection of information is required by 37 SER 15. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.S. 122 and 37 CFR 1.14. This collection is estimated to 12 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

Attorney Docket No: S01-254/US



In the United States Patent and Trademark Office

10/676,721 9/30/2003

Method for Detecting and Classifying a Structure of Interest in Medical Images

Applicant(s): Examiner: Art Unit:

Burak Acar not yet assigned not yet assigned

Mailed S/10/04
Palo Alto CA

Information Disclosure Statement

Commissioner of Patents and Trademarks Washington, District of Columbia 20231

Dear Sir or Madam:

Attached is a completed Form PTO-1449 and copies of the pertinent parts of the references cited thereon. It is requested that the document(s) on the enclosed form be made of record.

Part I (Authority)

This statement is filed pursuant to:

(X) 37 C.F.R. § 1.97(b).

This information disclosure statement is filed either (1) within three months of the filing date of the national applications; (2) within three months of the date of entry of the national stage as set forth in 37 C.F.R. § 1.491 in an international application; or (3) before the mailing date of a first office action on the merits, whichever event occurs last.

Accordingly, this information disclosure statement requires no fee and no certification.

() 37 C.F.R. § 1.97(c).

This information disclosure statement is filed after the period specified in 37 C.F.R. § 1.97(b), but before the mailing date of either (1) a final action under 37 C.F.R. § 1.113 or (2) a notice of allowance under 37 C.F.R. § 1.311.

Accordingly, this information disclosure statement requires either the fee specified in 37 C.F.R. § 1.17(p) for submission of an information disclosure statement under 37 C.F.R. § 1.97(c) (\$240), or a certification according to 37 C.F.R. § 1.97(e).

() 37 C.F.R. § 1.97(d).

This information disclosure statement is filed after the period specified in 37 C.F.R. § 1.97(c).

Accordingly, this information disclosure statement requires the petition fee specified in 37 C.F.R. § 1.17(i)(1) to consider an information disclosure statement under 37 C.F.R. § 1.97(d) (\$130), a certification according to 37 C.F.R. § 1.97(e), and a petition requesting consideration of the information disclosure statement.

Conditional Petition

It is respectfully requested that this information disclosure statement be considered, good cause being presented in Part III herein (certification). please treat this paper as the required petition.

If this statement crosses in the mail with an office action, or is otherwise not in the indicated category of 37 C.F.R. § 1.97, it is respectfully requested that this statement be treated in the next appropriate category and made of record.

To the extent required, please treat this paper as a conditional petition for acceptance of the

Part II (Payment)

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- (X) No fee is due.
- () The fee specified in 37 C.F.R. § 1.17(p) for submission of an information disclosure statement under 37 C.F.R. § 1.97(c) is enclosed (\$240).
- () The petition fee specified in 37 C.F.R. § 1.17(i)(1) to consider an information disclosure statement under 37 C.F.R. § 1.97(d) is enclosed (\$130).

Part III (Certification)

Pursuant to 37 C.F.R. § 1.97(e), I certify:

- (X) No certification is necessary.
- () (1) Each item of information contained in the information disclosure statement was cited in a communication from a foreign patent office in a counterpart foreign application not more than three months prior to the filing of the statement.
 - () The "communication from a foreign patent office" referred to in the certification is an International Search Report, possibly issued by the U.S. Patent and Trademark Office in its capacity as an International Search Authority or International Preliminary Examining Authority.
 - () The "counterpart foreign application" referred to in the certification corresponds to an ancestor or descendent application of the application for which this information disclosure statement is filed.
- () (2) No item of information contained in the information disclosure statement was cited in a communication from a foreign patent office in a counterpart foreign application, or, to my knowledge after making reasonable inquiry, was known to any individual designated in 37 C.F.R. § 1.56(c), more than three months prior to the filing of the statement.

Part IV (Additional Statement)

An additional statement regarding these items of information () is, (X) is not, enclosed.

Copies of the cited art (X) are enclosed, () are of record in parent application Serial No. _____ and will be provided if the Examiner deems it convenient.

Dated:

8-10-04

Respectfully submitted,

Ron Jacobs, Ph.D. Reg. No. 50,142 2345 Yale Street, 2nd Floor Palo Alto, CA 94306 tel: (650) 424-0100

fax: (650) 424-0100

ATTY. DOCKET NO. SERIAL NO. 49U.S. DEPARTMENT OF COMMERCE S01-254/US 10/676,721 APPLICANT LIST OF PRIOR ART CITED BY APPLICANT Burak Acar (Use several sheets if necessary) FILING DATE GROUP Not yet assigned 9/30/2003 **U.S. PATENT DOCUMENTS** EXAMINER RELEVANT DOCUMENT DATE NAME INITIAL **NUMBER** INFORMATION 3 3 1 1 1 1 6 6 12/18/2001 Kaufman et al A 2002/0039400 04/04/2002 Kaufman et al B 8 3 6 2 07/04/2000 6 0 1 David J. Vining C 2 0 3 1 9 9 07/06/1999 Vining, et al. D 7 1 7 6 5 9 7 10/26/1999 Kaufman et al. E 9 5 8 0 3 0 04/06/1999 Johnson et al. F 1 6 2 5 4 9 7 02/13/1996 Zhang et al. G 5 4 10/17/1995 Coin et al Н FOREIGN PATENT DOCUMENTS DOCUMENT NUMBER COUNTRY TRANSLATION DATE letter code YES NO **OTHER PRIOR ART** (Including Author, Title, Date, Pertinent Pages, Etc.) D.S. Paik et al., "Detection of polyps in CT colonography: A comparison of a computer K aided detection algorithm to 3-D visualization methods, "in Proc. 85th Scientific Sessions Radiological Society of North America, vol. 213 (P). Chicago, IL, 1999, p.428 Paik et al., "Computer-aided detection of polyps in CT colonography: Free response ROC evaluation of performance," Radiology, vol. 217 (SS), p. 370, 2000 R.M. Summers et al., : Automated polyp detection at CT colonography: Feasibility L assessment in a human population," Radiology, vol. 219, no. 1, pp. 51-59, 2001 R.M. Summers et al., "Automated polyp detector for Ct colonography: Feasibility study," Radiology, vol. 216, no. 1, pp.284-290, 2000 A. H. Mir et al., "Description of shapes in CT images: The usefulness of time-series M modeling techniques for identifying organs," IEEE Eng. Med. Bio. Mag., vol. 18, pp. 79-84, Jan/Feb. 1999 PC Mahalanobis, On the generalized distance in statistics, Proc. Natl. Institute of Science of India 12:49-55, 1936 Lavin et al., "Feature Comparisons of Vector Fields Using Earth Mover's Distance", in Proc. N Visalization, 1998, pp.103-110 Helman et al., "Representation and Display of Vector Field Topology in Fluid Flow Data Sets", IEEE, August 1989, pp.27-36 DATE CONSIDERED **EXAMINER**

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